

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/001997

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H02H 7/045
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H02H, G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6483680 B1 (KULIDJIAN, A ET AL), 19 November 2002 (19.11.2002), column 1, line 23 - line 31; column 1, line 44 - line 67; column 8, line 48 - line 56 --	1-7
A	US 5784233 A (BASTARD, P ET AL), 21 July 1998 (21.07.1998), column 1, line 17 - line 30, figure 3 --	1-7
A	SHENGLI HUANG ET AL: "Analysis of balanced and unbalanced faults in power systems using dynamic phasors." In: Power System Technology, 2002. Proc. PowerCon 2002. 13-17 Oct. 2002, pages 1550-1557 vol.3. See the abstract --	1-7

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier application or patent but published on or after the international filing date
- *L* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search 1 April 2005	Date of mailing of the international search report 18-04-2005
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Sture Elnäs /LR Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N°.
A	GAJIC, Z ET AL: "Verification of utility requirements on modern numerical transformer protection by dynamic simulation." In: Developments in Power System Protection, 2001, Seventh Int Conf on (IEE), 9-12 April 2001, pages 209-212. See page 211, column 1 --	1-7
A	US 6518767 B1 (ROBERTS, J B ET AL), 11 February 2003 (11.02.2003), abstract -----	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/03/2005

International application No.

PCT/SE 2004/001997

US	6483680	B1	19/11/2002	NONE
US	5784233	A	21/07/1998	AT 263779 T 15/04/2004 CN 1047887 B,C 29/12/1999 CN 1141097 A 22/01/1997 DE 69414605 D,T 17/06/1999 EP 0683791 A,B 29/11/1995 SE 0683791 T3 EP 0738432 A,B 23/10/1996 ES 2127509 T 16/04/1999 FR 2714771 A,B 07/07/1995 US 5859213 A 12/01/1999 WO 9519059 A 13/07/1995 AT 285475 T 15/01/2005 AU 704440 B 22/04/1999 AU 1711495 A 21/08/1995 CA 2141907 A 05/08/1995 DE 674004 T 19/09/1996 DE 69533863 D 00/00/0000 EP 0674004 A,B 27/09/1995 FI 954699 A 03/10/1995 FR 2715939 A,B 11/08/1995 JP 8511170 T 26/11/1996 NO 953925 A 04/12/1995 NZ 279855 A 27/05/1998 US 5800980 A 01/09/1998 US 5871745 A 16/02/1999 US 5871996 A 16/02/1999 US 5962217 A 05/10/1999 US 6184025 B 06/02/2001 US 6342383 B 29/01/2002 WO 9521256 A 10/08/1995
US	6518767	B1	11/02/2003	AU 1536502 A 29/04/2002 BR 0114791 A 12/08/2003 CA 2425942 A 25/04/2002 CN 1481506 T 10/03/2004 EP 1327153 A 16/07/2003 MX PA03003416 A 04/05/2004 NZ 525831 A 25/06/2004 US 6590397 B 08/07/2003 US 20020101229 A 01/08/2002 WO 0233426 A 25/04/2002